



MAR 22 1991

March 7, 1991

Richard Spiese
VT ANR/DEC
Hazmat Management Division
103 South Main Street/West Bldg.
Waterbury, VT 05676

Re: Additional information regarding the Hooper residence

Dear Mr. Spiese:

On 2/20/91, TEC personnel investigated the Hooper residence on Sunset Lake Road, West Brattleboro, VT. Enclosed is the additional information you requested in your letter of 2/11/91.

* Site maps showing the location and layout of the site (Figs. 1--4).

* A sensitive receptor check indicates the following: (see site layout map, fig. 4):

* A) Possible vapor receptor:

--the Hooper basement (no odors noted)

B) Possible water receptors:

--the Hooper well (located in a manhole 30 feet southeast of the house);

--the surface drainage system, starting upgradient of the house and barn, and flowing south and west in a series of ditches and culverts to the Halladay Brook;

--the Halladay Brook across Sunset Lake Road from the Hooper residence.

* The nearest neighbors are William and Lynne Stone to the south of the Hooper residence on the same side of the road, and Francis and Claire Markey to the southwest across Sunset Lake Road.

* In lieu of an initial subsurface site assessment, a sample of the domestic water supply was taken on 2/20/91. The sample was analyzed for Total Petroleum Hydrocarbons (TPH). The laboratory results are included. The analysis shows 5.8 ppm of TPH. TEC obtained additional samples on 3/1/91, to further identify the constituents. Due to the proximity of the sampling port to the fuel tank in the basement, the second sample was obtained from the tap after allowing the water to run for over 1/2 hour. This sample was analyzed using EPA Method 524. A fingerprint analysis of this sample was also completed. Results show non-detectable levels for all parameters under EPA 524 and the fingerprint analysis indicates no petroleum hydrocarbons. The original test indicating 5.8 ppm may have been caused by a recent fuel delivery or another event unrelated to the tank which may have caused vapors in the basement where the sample was taken. Based on the latest laboratory results, it appears that the drinking water well does not contain any detectable compounds in the 542 analysis nor is its finger print characteristic of petroleum hydrocarbons.

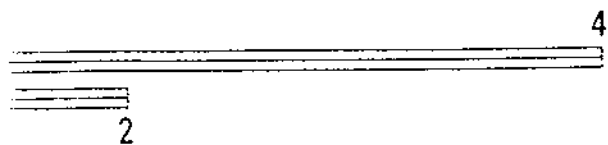
* Photographs of the site are also included.

If there is any other information you need, or if you have any questions regarding this information, please call me.

Sincerely,

David Gagnon

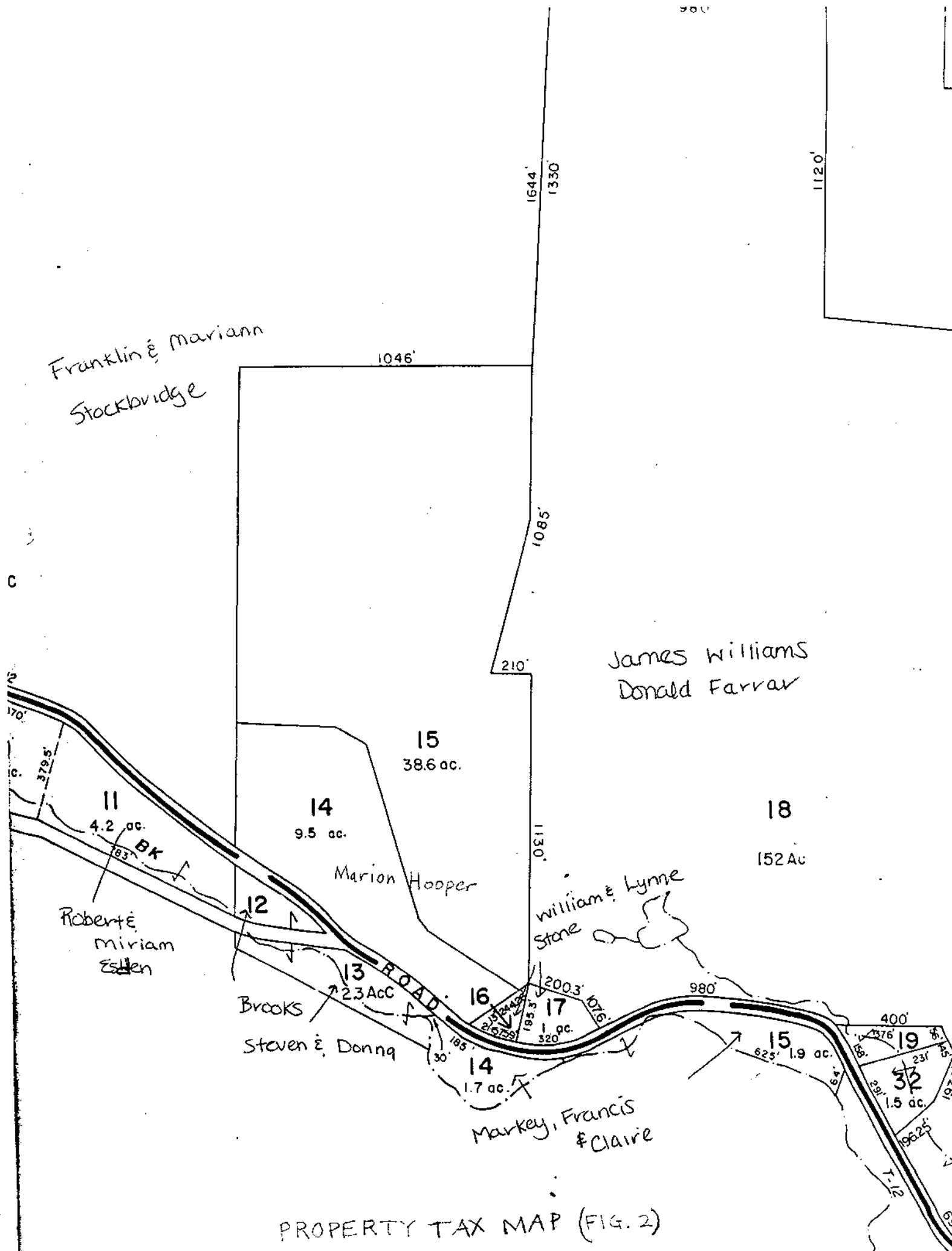
cc: K. Fish, VNB
DG/kmm
encl.
rs968.



1 CENTIMETER ON THE MAP REPRESENTS 250 METERS
CONTOUR INTERVAL 6 METERS

HOOPER RESIDENCE
LOCATION MAP (FIG.1)

Franklin & Mariann
Stockbridge



James Williams
Donald Farrar

15
38.6 ac.

14
9.5 ac.

Marion Hooper

18
152 ac.

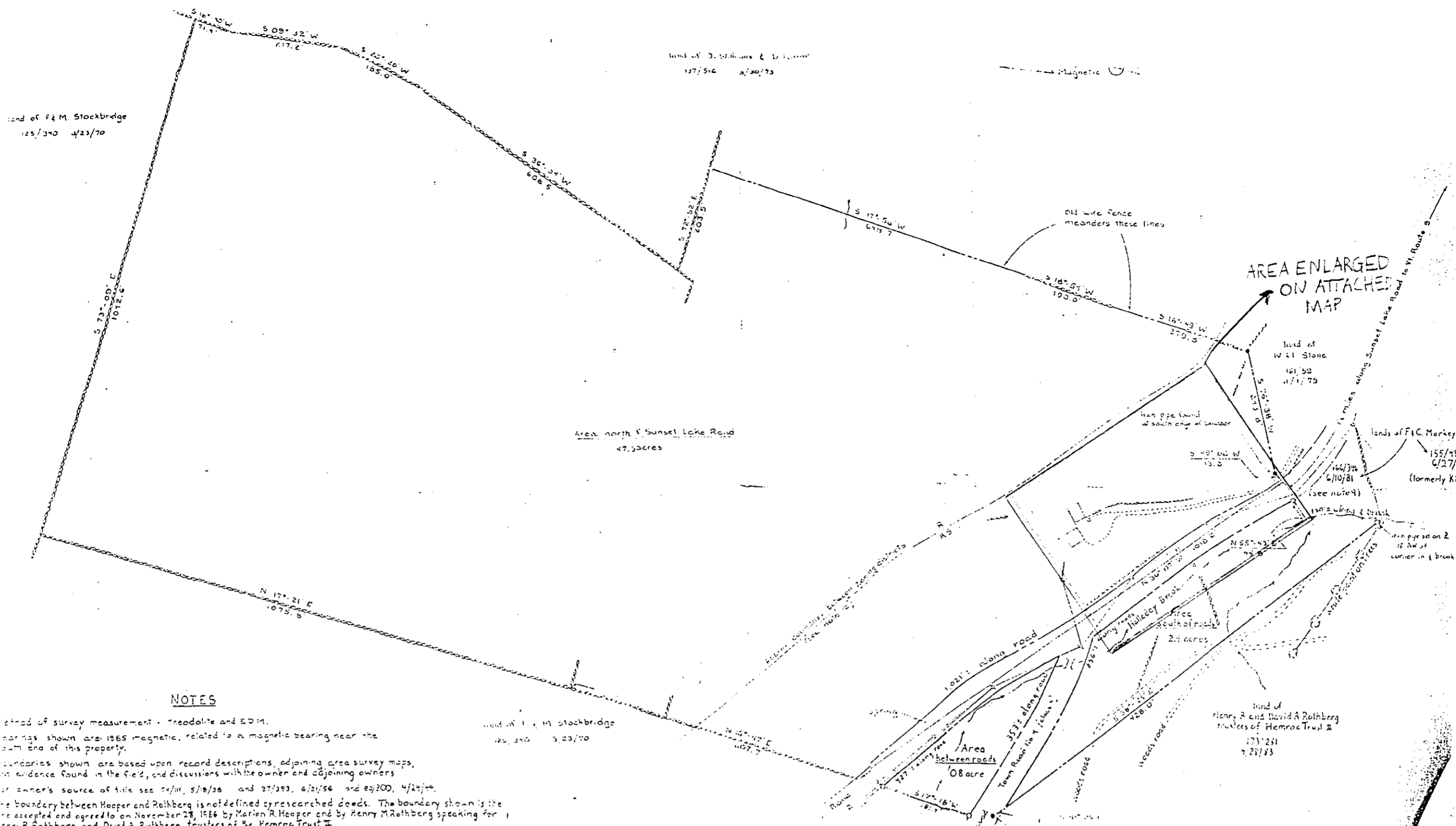
William & Lynne
Stone

Robert &
Miriam
Esten

Brooks
Steven & Donna

Markey, Francis
& Claire

PROPERTY TAX MAP (FIG. 2)



NOTES

Method of survey measurement - theodolite and EDM.
Bearings shown are 1985 magnetic, related to a magnetic bearing near the
S.W. end of this property.
Boundaries shown are based upon record descriptions, adjoining area survey maps,
and evidence found in the field, and discussions with the owner and adjoining owners.
The owner's source of title see 12/11/31, 5/10/36 and 27/383, 6/21/56 and 8/20/300, 4/21/74.
The boundary between Hooper and Rothberg is not defined by researched deeds. The boundary shown is the
one accepted and agreed to on November 23, 1986 by Marion R. Hooper and by Henry M. Rothberg speaking for
Henry B. Rothberg and David A. Rothberg, Trustees of the Hemlock Trust II.
Utility poles and overhead wires exist as shown. Easements not researched.
The original layout of the Town road rights of way were not researched. Boundary shown
assumes a three rod width centered on the present travelled ways.
Property shown includes tax parcels 4-1-11 and 6-1-15 and 6-2-12 and 6-2-13.
A northwesterly portion of the Merkey property is shown on a survey map titled "Property of John Merkey
1931" dated Nov. 1930 by Henry B. Roth.

LEGEND

- Property line
- Stone wall
- Wire fence
- Brook
- Utility pole and wires
- Iron pipe found
- Iron pipe or pin set



PROPERTY BELONGING TO
MARION R. HOOPER
SUNSET LAKE ROAD
BRATTLEBORO, VERMONT

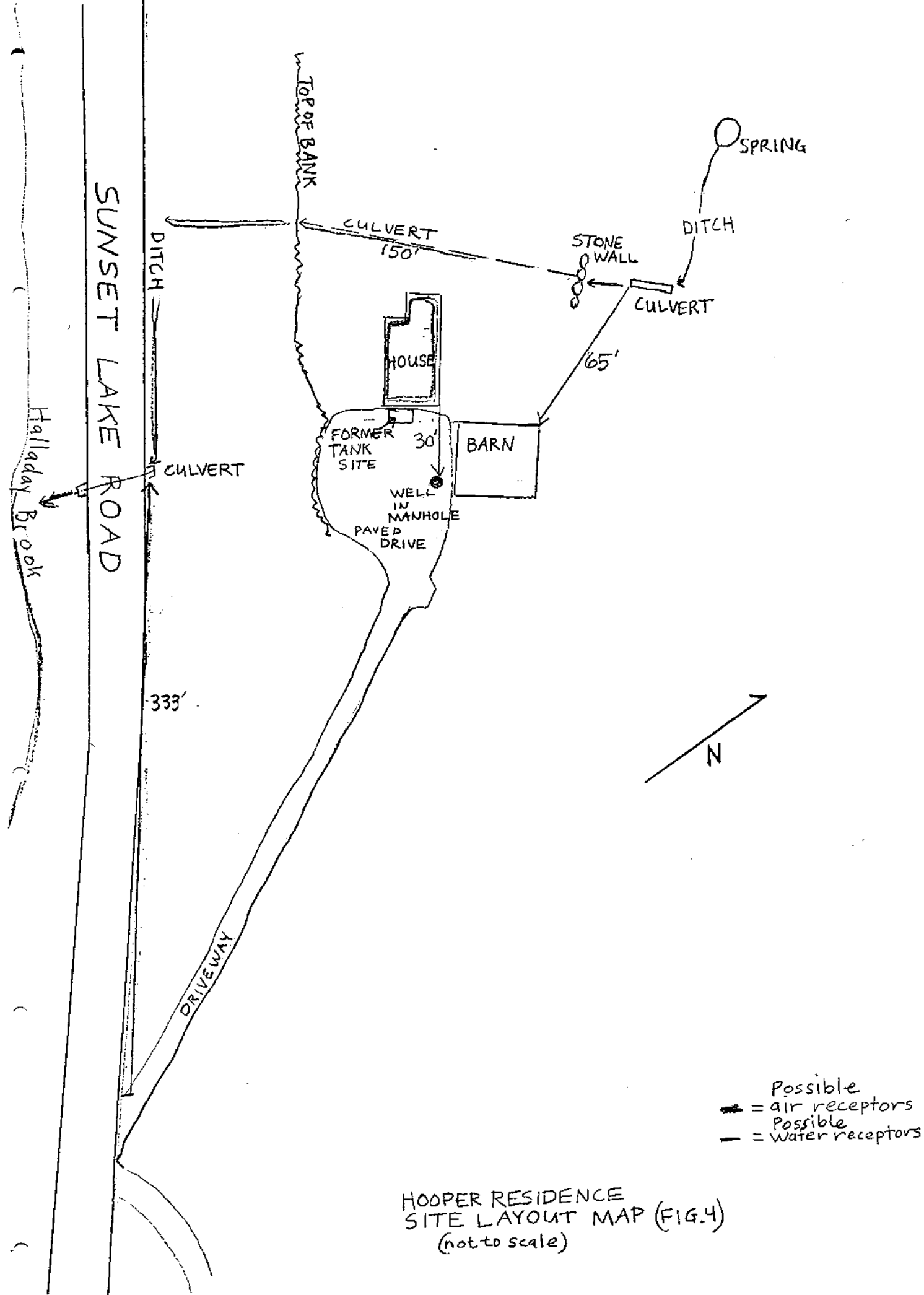
Scale 1"=200'

Surveyed by
Marion R. Hooper
Brattleboro, Vermont 1985

Survey made Dec. 1985
Plan date Feb. 1986
File No. 822

Revised Scale 1"=200'

HOOPER SURVEY MAP (FIG. 3)



HOOPER RESIDENCE
SITE LAYOUT MAP (FIG.4)
(not to scale)

**Matrix Analytical, Inc.**

HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824

Mass. Cert. No. 919 * Conn. Cert. No. PH-0315 * EPA ID No. MA039
N.Y. ELAP No. 11116

MAI ID #

10533424

ACCOUNT #

001407

CODE PAGE #

D 1

SAMPLE IDENTIFICATION INFORMATION

968

P. MILLER

REFERRED BY:

TEC/TRI-S ENVIRON. CONSULTING
ATTN: DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED

02/20/91

14:00

RECEIVED

02/22/91

REPORTED

02/26/91

REPORT:

FINAL REPORT

COMMENT:

*** GENERAL INFORMATION
COLLECTOR: TEC/TRI-S ENVIR.

*** ORGANIC TESTING WATER

PET HYDROCARBON (IR) 5.8

DETECTION LIMIT AS INDICATED.

MG/L

0.10

418.1

*** THIS IS A FINAL REPORT. ***

**Matrix Analytical, Inc.**

HOPKINTON INDUSTRIAL PARK

106 SOUTH ST.

HOPKINTON, MA 01748

508-435-6824

Mass. Cert. No. 315 * Conn. Cert. No. PH-0518 * EPA ID No. MA039
N.Y. ELAP No. 11118

MAIL ID #

10603892

ACCOUNT #

001407

CODE PAGE #

0 2

SAMPLE IDENTIFICATION INFORMATION

968 (A)

VERMONT NAT'L BANK

W.BRATTLEBORO VT

REFERRED BY:

TEC/TRI-S ENVIRON. CONSULTING

ATTN: DAVID GAGNON

214 MAIN ST.

BRATTLEBORO, VT 05301

COLLECTED**RECEIVED****REPORTED**

03/01/91 03/01/91 03/11/91

11:00

REPORT:

FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** VOLATILE ORGANICS (524.2)				
TOLUENE	ND	UG/L	0.5	524.2
P-XYLENE	ND	UG/L	0.5	524.2
O-XYLENE	ND	UG/L	0.5	524.2
M-XYLENE	ND	UG/L	0.5	524.2
BROMOCHLOROMETHANE	ND	UG/L	0.5	524.2
N-BUTYLBENZENE	ND	UG/L	0.5	524.2
DICHLORDIFLOURO-CH4	ND	UG/L	0.5	524.2
FLUOROTRICHOLORO-CH4	ND	UG/L	0.5	524.2
HEXACHLOROBUTADIENE	ND	UG/L	0.5	524.2
ISOPROPYLBENZENE	ND	UG/L	0.5	524.2
P-ISOPROPYLTOLUENE	ND	UG/L	0.5	524.2
NAPTHALENE	ND	UG/L	0.5	524.2
N-PROPYLBENZENE	ND	UG/L	0.5	524.2
SEC-BUTLYBENZENE	ND	UG/L	0.5	524.2
TERT-BUTYLBENZENE	ND	UG/L	0.5	524.2
123 TRICHLOROBENZENE	ND	UG/L	0.5	524.2
124 TRICHLOROBENZENE	ND	UG/L	0.5	524.2
124 TRIMETHYLBENZENE	ND	UG/L	0.5	524.2
135 TRIMETHYLBENZENE	ND	UG/L	0.5	524.2
1,3-DICHLOROPROPANE	ND	UG/L	0.5	524.2
DETECTION LIMIT	0.5	UG/L	0.5	

ND = LESS THAN THE DETECTION LIMIT INDICATED.

*** THIS IS A FINAL REPORT. ***

**Matrix Analytical, Inc.**

HOPKINTON INDUSTRIAL PARK

106 SOUTH ST.

HOPKINTON, MA 01748

508-435-6824

Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 31116

MAIL ID #

10603892

ACCOUNT #

001407

CODE PAGE #

D 2

SAMPLE IDENTIFICATION INFORMATION

968 (A)

VERMONT NAT'L BANK

W.BRATTLEBORO VT

REFERRED BY:

TEC/TRI-S ENVIRON. CONSULTING

ATTN: DAVID GAGNON

214 MAIN ST.

BRATTLEBORO, VT 05301

COLLECTED**RECEIVED****REPORTED**

03/01/91 03/01/91 03/11/91

11:00

REPORT:

FINAL REPORT

COMMENT:

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TOLUENE	ND	UG/L	0.5	524.2
P-XYLENE	ND	UG/L	0.5	524.2
O-XYLENE	ND	UG/L	0.5	524.2
M-XYLENE	ND	UG/L	0.5	524.2
BROMOCHLOROMETHANE	ND	UG/L	0.5	524.2
N-BUTYLBENZENE	ND	UG/L	0.5	524.2
DICHLORDIFLOURO-CH4	ND	UG/L	0.5	524.2
FLUOROTRICHOLORO-CH4	ND	UG/L	0.5	524.2
HEXACHLOROBUTADIENE	ND	UG/L	0.5	524.2
ISOPROPYLBENZENE	ND	UG/L	0.5	524.2
P-ISOPROPYLTOLUENE	ND	UG/L	0.5	524.2
NAPTHALENE	ND	UG/L	0.5	524.2
N-PROPYLBENZENE	ND	UG/L	0.5	524.2
SEC-BUTLYBENZENE	ND	UG/L	0.5	524.2
TERT-BUTYLBENZENE	ND	UG/L	0.5	524.2
123 TRICHLOROBENZENE	ND	UG/L	0.5	524.2
124 TRICHLOROBENZENE	ND	UG/L	0.5	524.2
124 TRIMETHYLBENZENE	ND	UG/L	0.5	524.2
135 TRIMETHYLBENZENE	ND	UG/L	0.5	524.2
1,3-DICHLOROPROPANE	ND	UG/L	0.5	524.2
DETECTION LIMIT	0.5	UG/L	0.5	

ND = LESS THAN THE DETECTION LIMIT INDICATED.

*** THIS IS A FINAL REPORT. ***



Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824

Mass. Cert. No. 213 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 31118

MAT ID #

10603893

ACCOUNT #

001407

CODE PAGE #

D 1

SAMPLE IDENTIFICATION INFORMATION

968 (B)
VERMONT NAT'L BANK

REFERRED BY:

W.BRATTLEBORO VT

TEC/TRI-S ENVIRON. CONSULTING
ATTN: DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED RECEIVED REPORTED

03/01/91 03/01/91 03/13/91
11:00

REPORT:

FINAL REPORT

COMMENT:

TESTS

RESULTS

UNITS

DETECTION LIMIT

METHOD

*** GENERAL INFORMATION

COLLECTOR: TEC/TRI-S ENVIRON.

*** P. HYDROCARBON FINGERPRINT

CHROMATOGRAM FILE #: 0491Z
ANALYSIS DATE: 3/12/91
CARBON RANGE (FROM) NOT APPLICABLE
CARBON RANGE (TO) NOT APPLICABLE
COMMENTS: NONE

FINGERPRINT RESULT: THE CHROMATOGRAPH OF THIS SAMPLE IS NOT
CHARACTERISTIC OF PETROLEUM HYDROCARBON
PRODUCTS IDENTIFIED BY THIS METHOD.

*** THIS IS A FINAL REPORT. ***

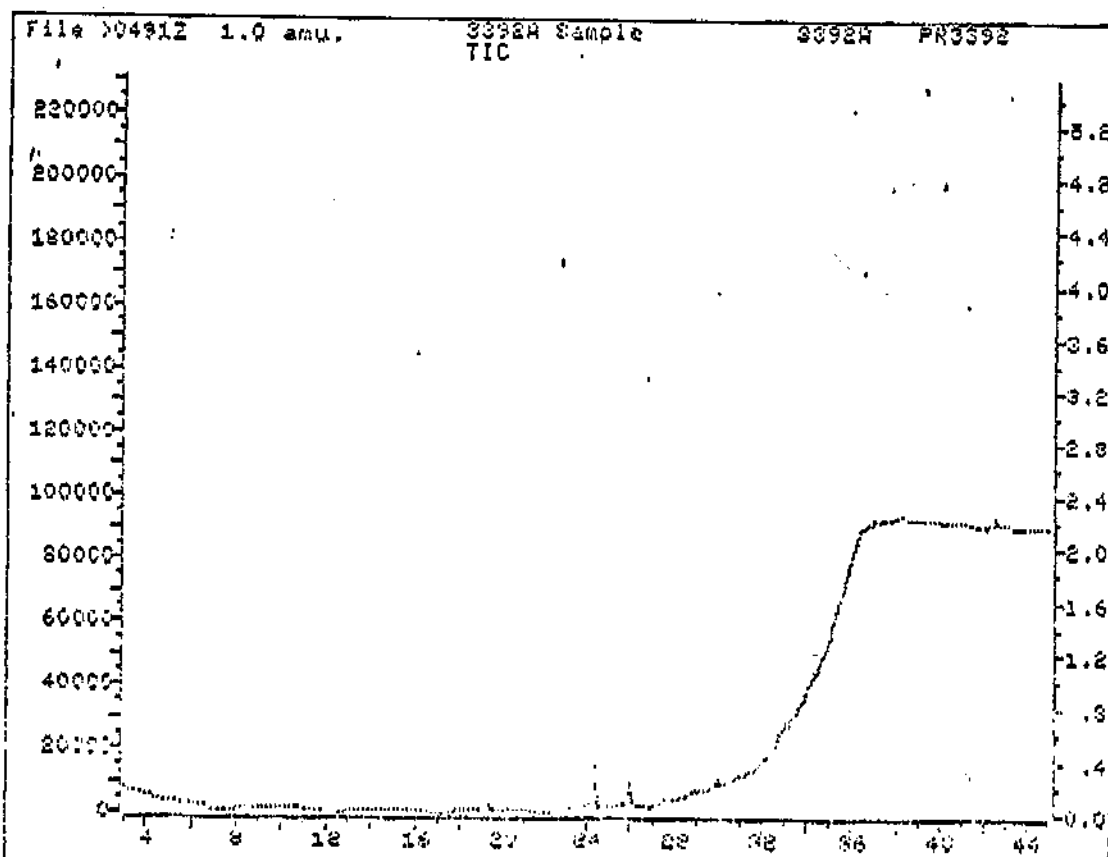




Photo #1: View northwest up driveway and up Sunset Lake Road.



Photo #2: View of former tank site on southeast end of house.
Well manhole at right (circled).



Photo #3: View of former tank site on end of house with manhole at right.



Photo #4: View of stone wall and culvert running under yard to top of bank above Sunset Lake Road.



Photo #5: View southwest toward stone wall and culvert running under yard northwest of house.



Photo #6: View from top of bank with drainage to ditch next to Sunset Lake Road with Halladay Brook at top of photo.

Photo #7: View northeast up
bank showing drainage
from culvert under yard
behind house.

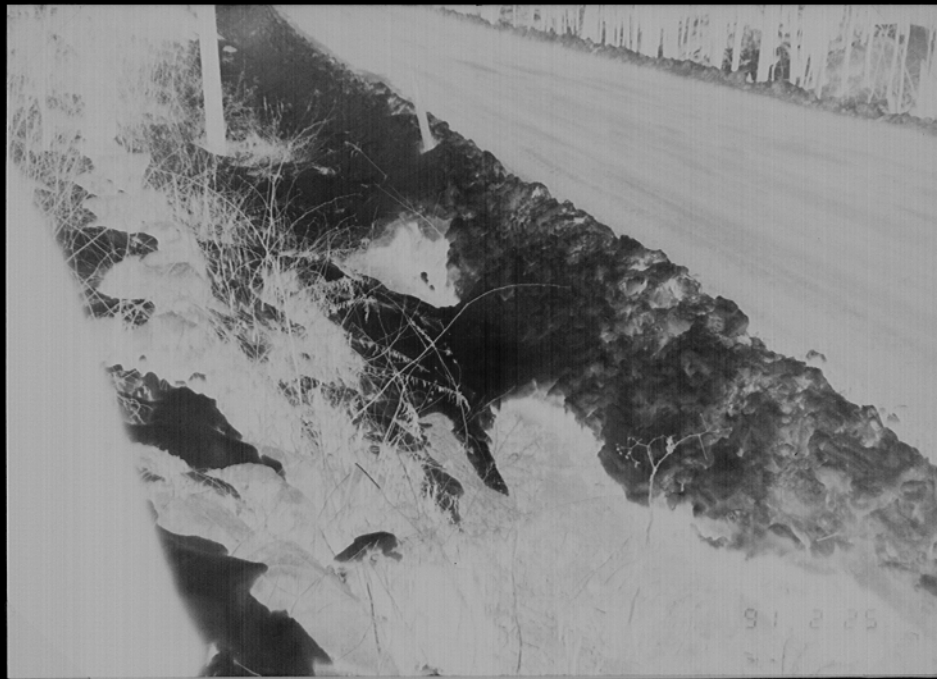


Photo #8: View southeast showing ditch and culvert under Sunset
Lake Road.

Photo #9: View toward Halladay Brook from culvert on the southwest side of Sunset Lake Road.

